

00249312-021399

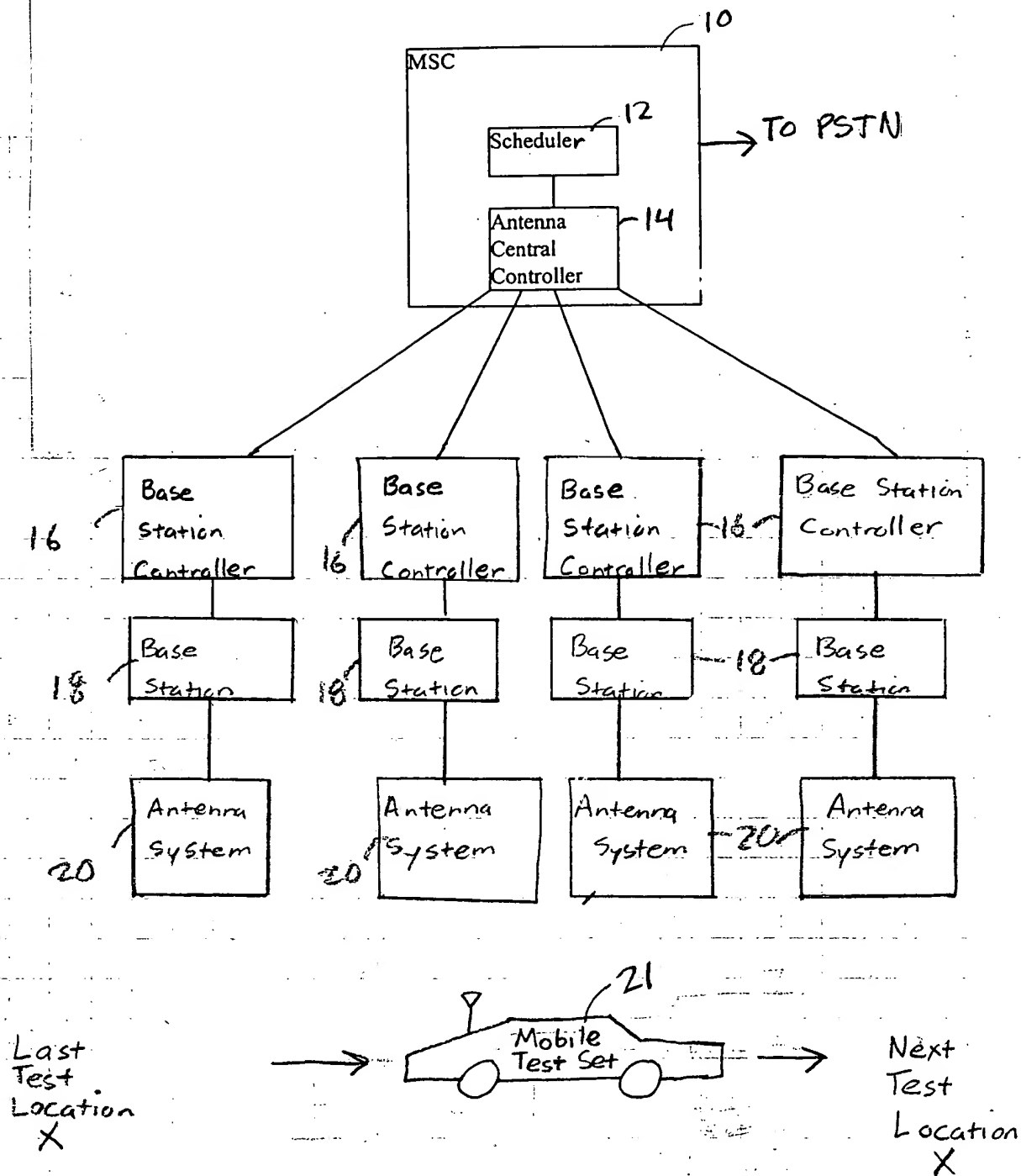
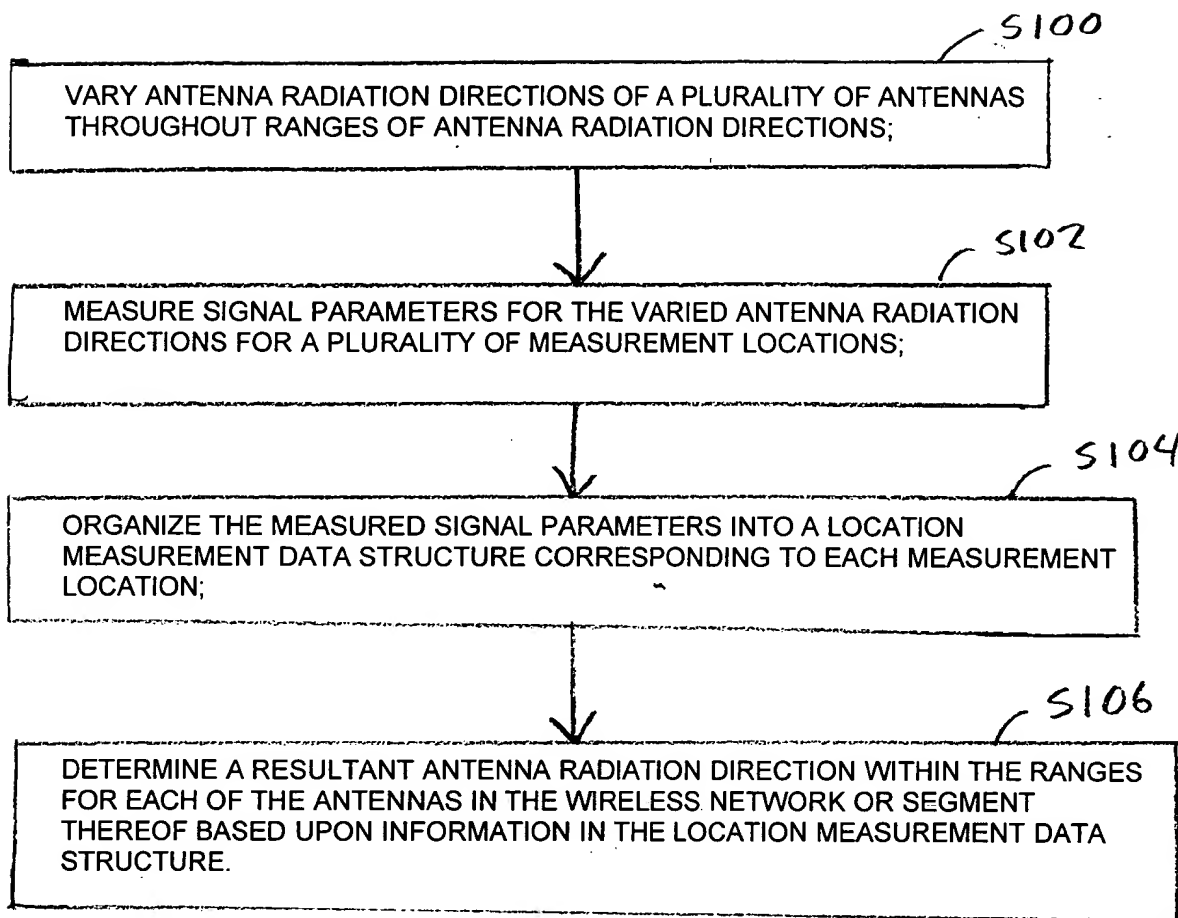


FIG. 1

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FIG. 2



00493 231299 00220 2164260

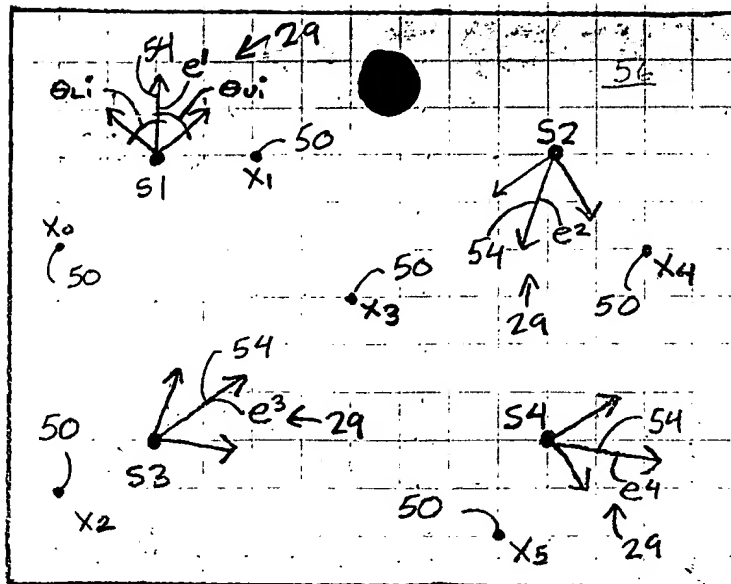


FIG. 3A

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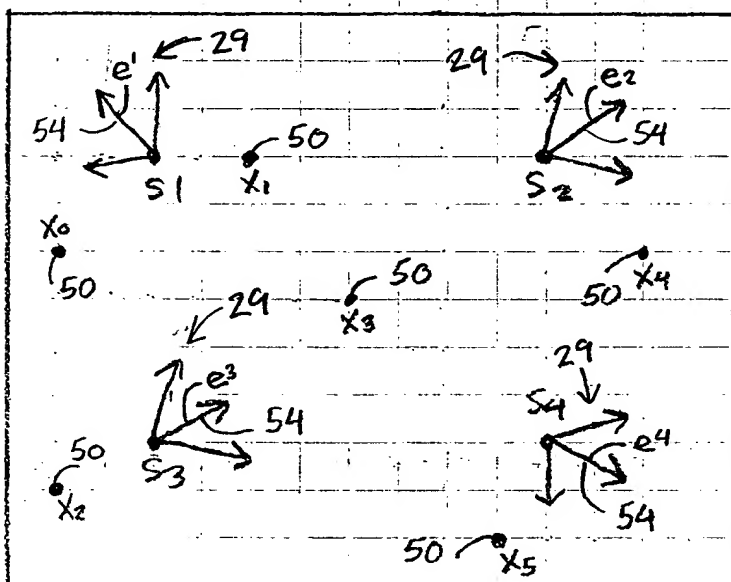


FIG. 3B

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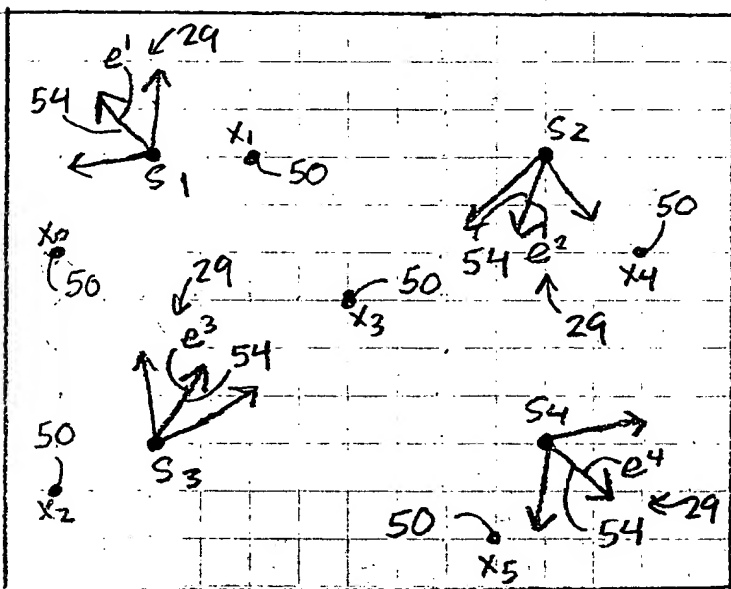


FIG. 3C

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# Measurement Arrangement

2925-248P

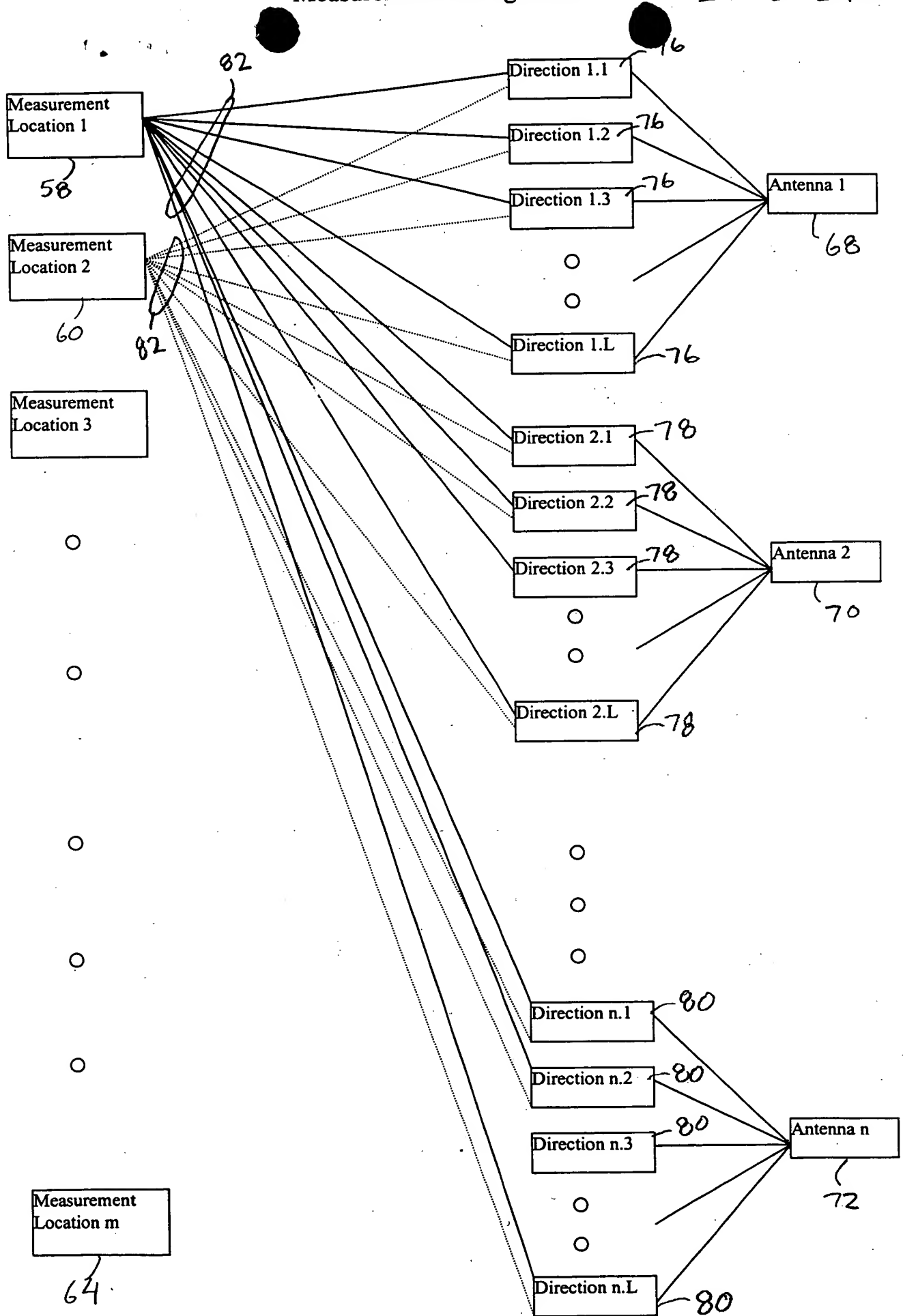


FIG.4

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## Interference Measurement

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$$\begin{pmatrix} S_2(x^1, e_1^2) & S_2(x^1, e_2^2) & \dots & \dots & S_2(x^1, e_q^2) \\ \vdots & \vdots & \vdots & \vdots & \vdots \\ S_n(x^1, e_1^n) & S_n(x^1, e_2^n) & \dots & \dots & S_n(x^1, e_q^n) \end{pmatrix} = \begin{array}{l} \text{first test} \\ \text{location} \\ \text{measurement} \\ \text{matrix of} \\ \text{signal strength} \\ \text{served by} \\ \text{antenna } i=1 \end{array}$$

:

$$\begin{pmatrix} S_1(x^m, e_1^1) & S_1(x^m, e_2^1) & \dots & \dots & S_1(x^m, e_q^1) \\ S_2(x^m, e_1^2) & S_2(x^m, e_2^2) & \dots & \dots & S_2(x^m, e_q^2) \\ \vdots & \vdots & \vdots & \vdots & \vdots \\ S_n(x^m, e_1^n) & S_n(x^m, e_2^n) & \dots & \dots & S_n(x^m, e_q^n) \end{pmatrix} = \begin{array}{l} \text{last test} \\ \text{location} \\ \text{measurement} \\ \text{matrix of} \\ \text{signal strength} \\ \text{served by antenna} \\ i=1 \end{array}$$

$$\begin{pmatrix} N_1(x^1, e_1^1) & N_1(x^1, e_2^1) & \dots & \dots & N_1(x^1, e_q^1) \\ N_2(x^1, e_1^2) & N_2(x^1, e_2^2) & \dots & \dots & N_2(x^1, e_q^2) \\ \vdots & \vdots & \vdots & \vdots & \vdots \\ N_n(x^1, e_1^n) & N_n(x^1, e_2^n) & \dots & \dots & N_n(x^1, e_q^n) \end{pmatrix} = \begin{array}{l} \text{first test} \\ \text{location measurement} \\ \text{matrix of background} \\ \text{noise} \end{array}$$

:

104 →

$$\begin{pmatrix} N_1(x^m, e_1^1) & N_1(x^m, e_2^1) & \dots & \dots & N_1(x^m, e_q^1) \\ N_2(x^m, e_1^2) & N_2(x^m, e_2^2) & \dots & \dots & N_2(x^m, e_q^2) \\ \vdots & \vdots & \vdots & \vdots & \vdots \\ N_n(x^m, e_1^n) & N_n(x^m, e_2^n) & \dots & \dots & N_n(x^m, e_q^n) \end{pmatrix} = \begin{array}{l} \text{last test} \\ \text{location} \\ \text{measurement} \\ \text{matrix of} \\ \text{background} \\ \text{noise} \end{array}$$

FIG. 6

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Set an initial value  $e^{(0)} \in S$ . Set the parameter  $k=0$ ,  $Q_{\min} > 0$  and  $e_{\min} = e^{(0)}$ . S10

Calculate  $Q(e^{(k)})$ . S12

Is the calculated  $Q(e^{(k)}) \leq Q_{\min}$ ? S14

No

Yes

Set  $Q_{\min} = Q(e^{(k)})$  and  $e_{\min} = e^{(k)}$ . S16

Is  $k = N$ ? S18

No

Set  $k = k + 1$ . S20

Yes

Stop S22

FIG. 7

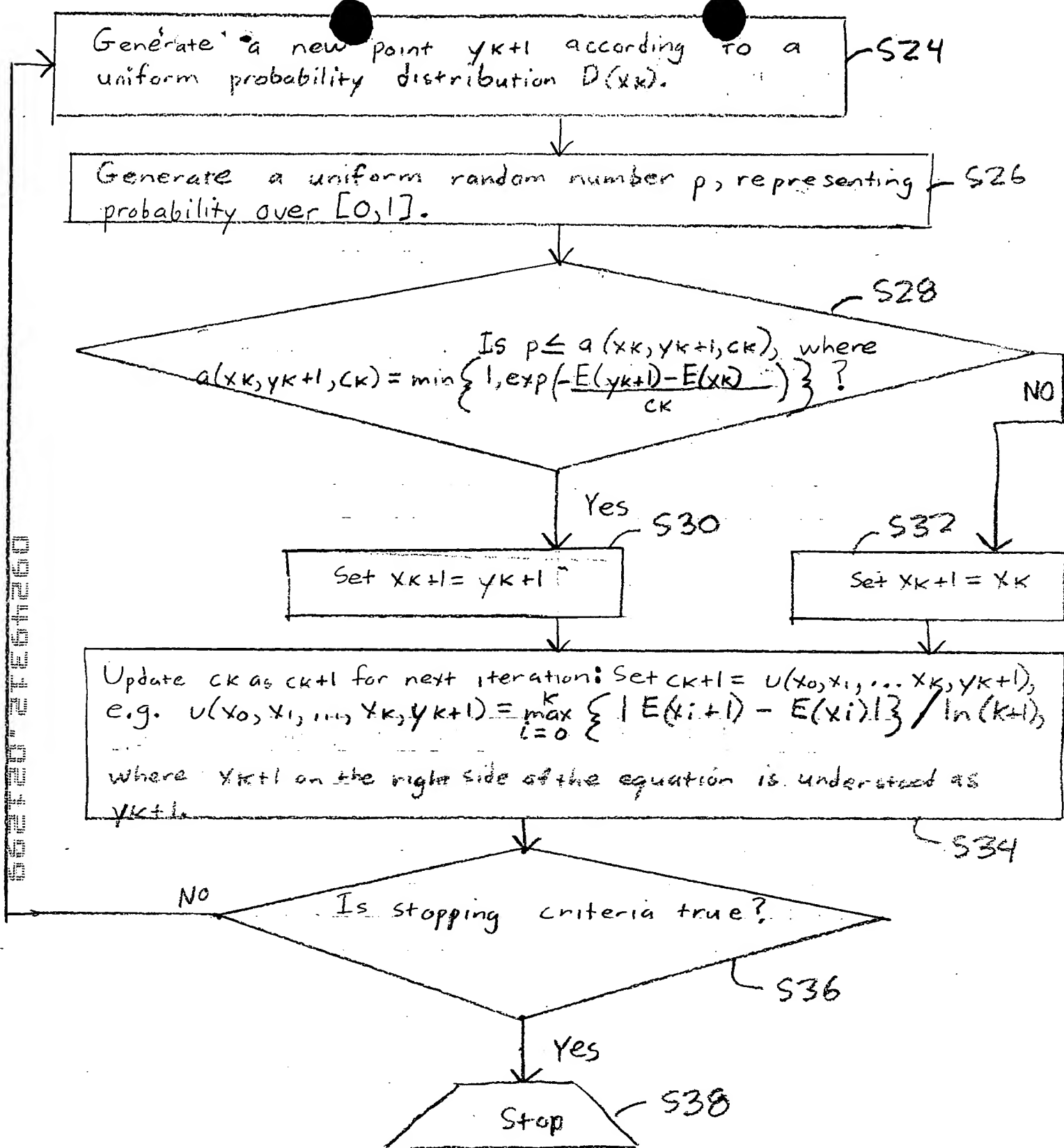


FIG. 8



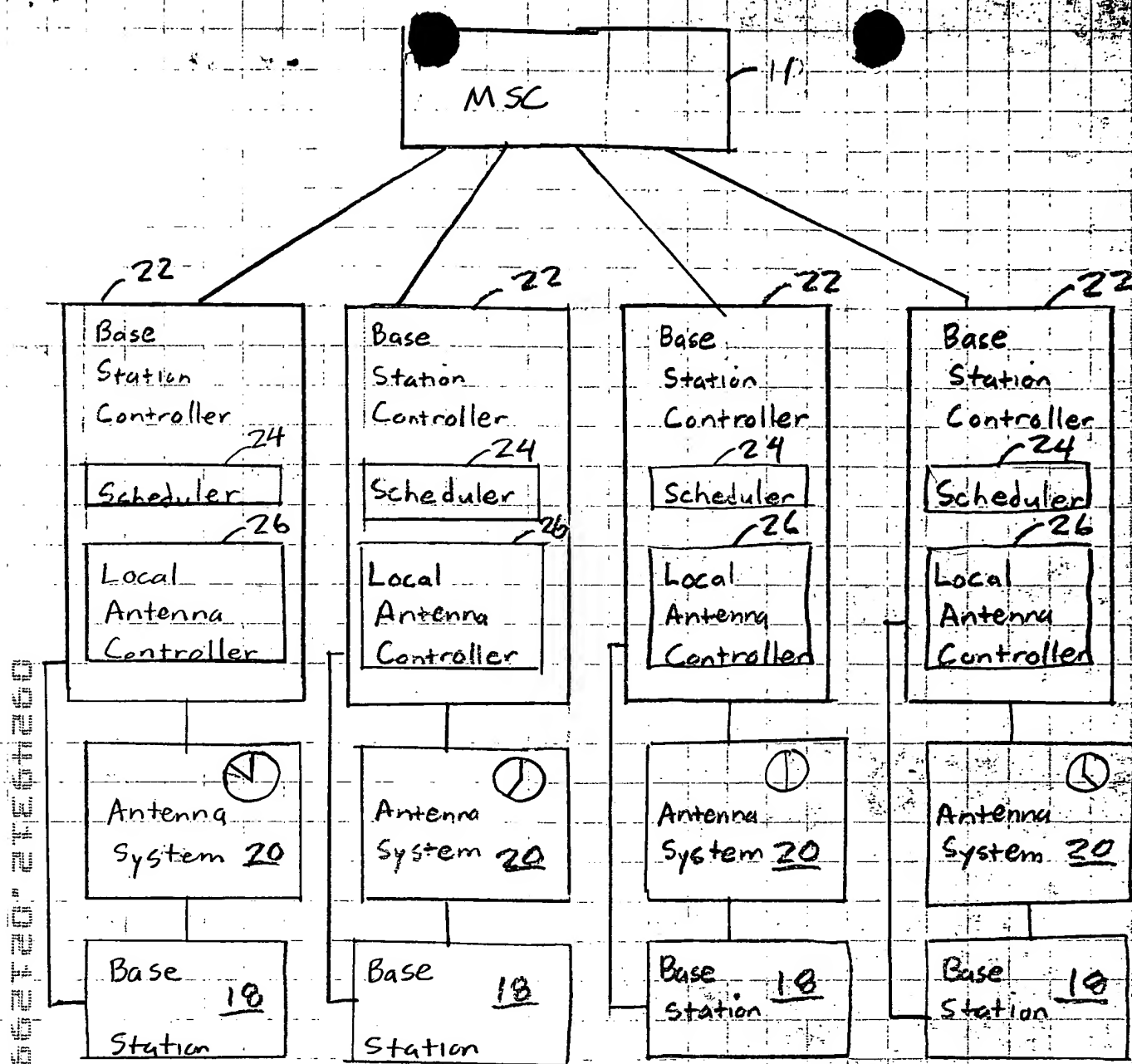


FIG. 9

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